

Abstract

Method and arrangement for taking up a first medium, which is present in a first phase, into a capillary device

In the capillary device, a reduced pressure is produced which is less than a critical pressure such that, if it is exerted in the capillary device, a surface tension which is produced by the first medium in the capillary device, when the first medium has been taken up fully by the capillary device, would be overcome so that a second medium which is present in a second phase, different from the first phase, would be taken up into the capillary device.

Significant Figure 5

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FIG. 5 is a schematic diagram of a capillary device 100. The device 100 includes a capillary tube 102 having a first end 104 and a second end 106. A first medium 108 is present in the first phase 110 at the first end 104. A second medium 112 is present in the second phase 114 at the second end 106. A reduced pressure 116 is produced in the capillary tube 102, which is less than a critical pressure 118. The reduced pressure 116 is sufficient to overcome the surface tension 120 of the first medium 108, allowing the second medium 112 to be taken up into the capillary tube 102.

100 capillary device
102 capillary tube
104 first end
106 second end
108 first medium
110 first phase
112 second medium
114 second phase
116 reduced pressure
118 critical pressure
120 surface tension